

**WHAT IS CLAIMED IS:**

1. A method for dynamic quantity orders in an electronic trading environment, the method comprising:

receiving a dynamic quantity order at an electronic exchange, wherein the dynamic quantity order is received in a message comprising a price and a desired order quantity, and wherein the order is sorted based on the price into an order queue;

increasing the order quantity to an increased order quantity such that a possibility of the desired order quantity getting filled is increased; and

dynamically adjusting the order quantity based on a total quantity in the order queue at the price.

2. A computer readable medium having stored therein instructions to execute the method of claim 1.

3. The method of claim 1, wherein the order queue is processed by the electronic exchange such that orders are removed based on a pro-rata priority.

4. The method of claim 3, further comprising:

when the dynamic quantity order is received at the electronic exchange, assigning a first weight parameter to the dynamic quantity order based on the desired order quantity and the total order quantity in the order queue;

estimating a potential order quantity that will be filled in the order queue at the price; and

increasing the quantity for the dynamic quantity order based on the estimated potential order quantity.

5. The method of claim 4, wherein the dynamic quantity order further comprises a percentage associated with an estimated order quantity that will be filled in the order queue.

6. The method of claim 5, wherein the step of estimating the potential order quantity is based on the percentage.

7. The method of claim 4, wherein the step of estimating the potential order quantity is based on a default set by the electronic exchange.

8. The method of claim 4, further comprising:  
when the order quantity associated with the dynamic quantity order is increased, assigning a second weight parameter to the order, wherein the second weight parameter is determined based on the increased order quantity and a new total order quantity in the order queue at the price.

9. The method of claim 1, wherein the order quantity associated with the dynamic quantity order is increased at the electronic exchange.

10. The method of claim 1, further comprising:  
detecting a filled order quantity associated with the dynamic quantity order;  
determining that the filled order quantity is not lower than the desired order quantity of the dynamic quantity order; and  
attempting to delete a remaining order quantity associated with the increased order quantity.

11. The method of claim 1, further comprising:  
detecting a filled order quantity associated with the dynamic quantity order;

determining that the filled order quantity is lower than the desired order quantity of the dynamic quantity order; and

dynamically adjusting the increased order quantity such that a possibility of a remaining portion of the desired order quantity being filled is increased.

12. The method of claim 11, wherein the increased order quantity is dynamically adjusted based on a new order quantity in the order queue at the price.

13. The method of claim 1, further comprising:

applying a fee to be paid by a trader associated with the order for increasing the order quantity.

14. The method of claim 13, wherein at least a portion of the fee is to be paid to the electronic exchange.

15. The method of claim 13, wherein the fee is to be paid when at least a portion of the order quantity is filled.

16. A method for dynamic quantity orders in an electronic trading environment, the method comprising:

sending a dynamic quantity order from a client device to an electronic exchange, wherein the dynamic quantity order is sent in a message comprising a price and a desired order quantity to be filled;

receiving the dynamic quantity order at the electronic exchange;  
placing the dynamic quantity order in a pro-rata order queue;  
increasing the order quantity of the dynamic quantity order such that a possibility of the desired order quantity getting filled is increased; and

dynamically adjusting the increased order quantity based on a current total quantity in the order queue at the price.

17. A computer readable medium having stored therein instructions to execute the method of claim 16.

18. The method of claim 16, wherein the dynamic order quantity further comprises a percentage associated with the estimated order quantity that will potentially be filled.

19. The method of claim 16, further comprising:  
when the dynamic quantity order is received at the electronic exchange, assigning a first weight parameter to the dynamic quantity order based on the desired order quantity and the current total available order quantity in the pro-rata order queue at the price;

calculating an estimated order quantity that will potentially be filled in the order queue at the price; and

increasing the order quantity of the dynamic quantity order so that if the estimated order quantity will be filled, the desired order quantity of the dynamic quantity order will be filled.

20. The method of claim 19, wherein the dynamic quantity order further comprises a percentage associated with an estimate of the order quantity that will be filled.

21. The method of claim 20, wherein the step of calculating is further based on the percentage.

22. The method of claim 19, further comprising:

when the order quantity associated with the dynamic quantity order is increased, assigning a second weight parameter to the order, wherein the second weight parameter is determined based on the increased order quantity and a new current total order quantity in the order queue at the price.

23. The method of claim 16, further comprising:
  - detecting a filled order quantity associated with the dynamic quantity order;
  - determining that the filled order quantity is not lower than the desired order quantity of the dynamic quantity order; and
  - attempting to delete a remaining order quantity associated with the increased order quantity.

24. The method of claim 16, further comprising:
  - detecting a filled order quantity associated with the dynamic order quantity;
  - determining that the filled order quantity is lower than the desired order quantity of the dynamic quantity order; and
  - dynamically adjusting the increased order quantity such that the possibility of a remaining portion of the desired order quantity will be filled is increased.

25. The method of claim 24, wherein the increased order quantity is dynamically adjusted based on a new current order quantity in the order queue at the price.

26. The method of claim 16, further comprising:
  - applying a fee to be paid by a trader associated with the dynamic quantity order.
27. The method of claim 26, wherein the fee is to be paid when at least a portion of the order quantity associated with the dynamic quantity order is filled.